

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON 7, ALBERTA

FEBRUARY 20, 1969



POLICY ADOPTED FOR CAMPUS PLANNING AND DEVELOPMENT

The Office of the Vice-President for Campus Planning and Development, WALTER H. WORTH, has issued the following statement, recently adopted as policy by the Board of Governors on the recommendation of the Board Building Committee and the Campus Development Committee. The statement is intended as a guide to planning to the prime consultant, faculty liaison person, and Campus Development Office co-ordinator for each of the capital projects now underway. It will also be included in the Guide to the Preparation of a Detailed Proposal when this document is revised.

"The University of Alberta believes that the physical environment matters, and that it makes a basic contribution to the quality of campus life. Therefore, it expects that the design of this environment will be guided by three major criteria: beauty, function, and efficiency. It also believes that a satisfying and exciting visual environment can be achieved economically and without loss of function if the planning is careful and the designer imaginative. Accordingly, it is expected that all those involved in the planning and design of specific capital projects will strive to achieve these objectives."

An estimated 22,500 people came to Varsity Guest Weekend, Thursday, February 13, to Sunday, February 16. On Friday morning, those who hadn't had time for breakfast or couldn't wait until lunch, or were just generally hungry, lined up outside the Students' Union Building, where Dr. Johns and assistants made and served pancakes and coffee. Meanwhile, back at the Chemistry Building, an interested group in one of the labs watched rayon being made.



PROFESSOR McDUGALL DIES

WILLIAM DEWAR MCDUGALL, Professor Emeritus of Education, died February 14. Dr. McDougall had retired in 1966 after 21 years with the Faculty of Education.

Born in Whycocomagh, Nova Scotia, November 24, 1895, Dr. McDougall graduated from the Provincial Normal School

at Camrose in 1916. For the next ten years, he taught in rural schools in Alberta. From 1939 to 1945, he was instructor in the Viking School. In 1929, on the opening of the Edmonton Normal School, he was appointed principal of the Practice School. From 1939 to 1945, he was instructor in social studies at the Provincial Normal Schools in Calgary and Edmonton. In 1945, he joined the Faculty of Education as Associate Professor of Education and in 1950 was promoted to Professor and appointed Chairman of the newly-established Division of Elementary Education.

Dr. McDougall was one of the four pioneers who officially launched the "Enterprise" in Alberta at the Department of Education Summer School in 1935. He was the author or co-author of five texts in social studies for junior high schools. He was also the author of *The First Forty Years*, a history of the Education Society in Edmonton.

GUNNING SPEAKS ON NATIONAL SCIENCE POLICY

HARRY E. GUNNING, *Professor and Head of Chemistry and Killam Memorial Professor of Chemistry, received an honorary Doctor of Science degree from the University of Guelph at its Winter Convocation. Dr. Gunning delivered the Convocation address, titled "National Science Policy and the University." Excerpts from that address follow.*

I thought it might be particularly appropriate on this occasion to discuss some recent developments at the federal level which may well have far-reaching implications for our universities and for Canadian society in general. I refer to the current deliberations of the Science Council of Canada, and of the Lamontagne Senate Committee on the subject of a national science policy for Canada. . . .

Science represents an enormous creative force within a society, which we would like to harness and direct in channels of social and economic growth. Unfortunately, sometimes the very act of channeling creativity may destroy it. The development of a national science policy is essentially an attempt on the part of a government to channel scientific creativity toward the realization of certain pre-conceived national goals. . . .

The development of a national science policy in Canada will inevitably take the form of defining certain mission-oriented programs which will receive heavy government support. Thus the Science Council has recently suggested that such programs might be: nuclear power, space research, water resources development, transportation, urban development, computer applications, and technical aid to developing areas. . . . Can we, and should we, attempt to channel the creativity of our best scientists toward the realization of these goals?

. . . Let us start with the pure scientist. He engages in what is commonly called curiosity-directed research. . . . This seemingly haphazard course of action when followed by a highly creative mind has led to some of the greatest scientific discoveries the world has known. . . .

Many of our greatest and most highly creative scientists would only function effectively in such a pure research environment. . . . What will happen to these men under a national science policy which places great emphasis on mission-oriented programs? . . .

Up to this time the National Research Council through its grants-in-aid program has done an outstanding job of supporting basic research in our universities. . . . Students

in Canadian universities can now obtain a scientific education in most fields which is equivalent to that of the best institutions in other countries. It would seem obvious that Canada should be proud of this unprecedented growth in basic science in our nation. Unfortunately, since Canada is not a scientifically-oriented country, very few people are aware of these developments.

. . . Those unfamiliar with how science develops tend to think of science in terms of the applied scientist. They do not realize that applied science would be helpless without the steady stream of new scientific knowledge which comes from our basic research laboratories.

In evaluating the effect of mission-oriented programs on basic science, we must bear in mind that such programs are very expensive and Canada's resources for the support of research are very limited. There will be a strong tendency for government policy committees to recommend that applied research should grow at the expense of basic research, especially when federal budgets are tight. Now such policies would not necessarily deal a crippling blow to basic science if the mission-oriented programs are administered intelligently. . . . The real danger for Canada is that its mission-oriented programs may fall into the hands of those who do not really understand how the best scientists work.

The real motivations for the development of a national science policy in Canada are the pressing need to expand the industrial sector of our economy and increase its efficiency, and in addition reduce the costs of our services. . . . What we need is a much more flexible structure than that suggested by the Science Council. If a scientist through his work can provide the basis for a new industry in Canada, why should it be necessary to have his work conform to some particular mission-orientation? . . .

What is really needed in the country is the necessary facilities and funding to exploit for the benefit of Canada the new technology which is developed in the research laboratories of this country. This is where government support could do a very great deal of good.

To promote industrial growth in Canada we must realize that this country has certain problems which should determine the kinds of industries which will have the highest probability of successful growth here. . . . Canada is sparsely populated which results in a small internal market . . .

many of its major urban centres are located far from the major market areas. . . . Our industrial development should emphasize production which requires a very high level of technological content and great scientific innovation. Canada, more than any other of the highly developed countries must rely heavily on the creativity of its scientists to provide the new ideas which will give birth to the industries best suited to our needs. New ideas come from basic research. What has been lacking to date is the means to exploit these new ideas for the benefit of Canada. . . . Support for basic science must continue at an accelerating pace since this will be the source of the new ideas that we will require to develop industries peculiarly suited to Canada. Any realistic government science policy must be directed primarily toward the exploitation of the creativity of Canada's scientists for the social and economic benefit of Canada.

STUDENTS TO STAY ON COMMITTEES

In September, 1968, the General Faculty Council approved the recommendation of the ad hoc Committee on Committees that "both the Students' Union and the Graduate Students' Association be asked to nominate a person to serve on a trial basis until December 31, 1968 on the following committees, at which time the question of continuing membership is to be reviewed by the Executive Committee: Campus Development Committee and University Planning Committee."

On February 12, 1969, the Executive Committee received from both the committees and the student bodies recommendations that student membership be continued on a permanent basis. The Executive Committee endorsed these recommendations and the Students' Union and Graduate Students' Association have been asked to nominate representatives.

PEOPLE

WALTER D. NEAL, Professor of Educational Administration, is Acting Dean during the absence of H. T. COUTTS, Dean of Education. Dr. Coutts is expected to be away until March 7.

GERALD MURPHY, Associate Professor of Secondary Education, has been appointed Head of the new Department of Curriculum and Instruction in the Faculty of Education, Memorial University of Newfoundland. r. Murphy joined the University staff in 1967, after serving as principal and teacher in the schools of Alberta and working on several

projects designed to improve curriculum and instruction in the schools of Southern Alberta. He was also active in the Alberta Teachers' Association.

ROBERT STANGELAND, Associate Professor of Music and Head of the Piano Division in the Department of Music, will be the featured guest soloist with the Regina Symphony Orchestra Sunday, February 23. He will perform Beethoven's "Emperor" Concerto.

IVO G. DALLA LANA, Professor of Chemical and Petroleum Engineering, presented a paper at the Fourth Annual Sulphur Symposium in Calgary on February 6. Dr. Dalla Lana's topic was "The Use of Kinetic Data in the Design of Modified Klaus Process Catalytic Convertors."

VISITORS

R. B. PARKS, Professor of Botany at the University of California at Berkeley, and BRIAN MC AUSLAN, Associate Professor of Microbiology at the University of California San Francisco Medical Centre, addressed Department of Biochemistry seminars recently. On February 6, Dr. McAuslan spoke on "Synthesis and Regulation of Poxvirus DNA Dependent RNA Polymerase," and on February 17, Dr. Parks' topic was "Architecture of Photosynthetic Membranes."

KENNEDY G. MC WHIRTER, Senior Research Officer at the Genetic Science Laboratory, Oxford University, has joined the Department of Genetics as a Visiting Professor for six months. Mr. McWhirter's major interests are in the fields of population and ecological genetics, his current research being on polymorphoism in human olfaction, intensive selection in the meadow-brown butterfly, and vocalization in rodents. His background is varied, with twenty years (1942-62) service in the Indian Army and the Regular Territorial Army; several years in the practice of law; considerable intelligence work; and an MSc from the University of Manchester and an MA in classics from Merton College, Oxford.

J. V. ZIDEK, Professor of Mathematics at the University of British Columbia, and T. P. SRINIWASAN, Professor of Mathematics at the University of Kansas, presented lectures at Department of Mathematics Colloquia. On February 6, Dr. Zidek spoke on "Forman Bayes Admissible Invariant Estimations Under Squared Error Loss," and on February 13, Dr. Srinivasan's topic was "On Some Questions in Measure Theory."

AT SHAW of the Centre for Research in Human Learning at the University of Minnesota addressed the Department of Computing Science Colloquium and

Association for Computing Machinery chapter meeting on February 12. His topic was "General Adaptive Experiments in Psychology."

PETER G. BERGMANN, Professor of Mathematics at Syracuse University, will address the Mathematics Colloquium on February 25 at 4 p.m. in Campus Towers, Room 267. Dr. Bergmann, who is the author of many important papers on relativity theory, will speak on "Current Problems in General Relativity."

COMING EVENTS

MUSICAL EVENTS

The University of Alberta Mixed Chorus, conducted by JAMES WHITTLE, will give concerts in the Students' Union Theatre on Friday, February 21 and Saturday, February 22 at 8:30 p.m. Tickets are available from chorus members or at the door.

The Collegium Musicum of the Department of Music, conducted by ARTHUR CRIGHTON, Associate Professor of Music, will present a program of early music in Convocation Hall at 8:30 p.m. on Sunday, February 23.

The Women's Musical Club of Edmonton will present MAREK JABLONSKI in a piano recital Friday, February 28 at 8:30 p.m. in the Jubilee Auditorium. Mr. Jablonski, formerly of Edmonton, has been receiving excellent receptions in Europe, and recently made his debut in London, where he was widely acclaimed. In Yugoslavia, halls were sold out in advance, and Mr. Jablonski has been invited to return to perform in festivals in April and May. Tickets are available at the Celebrity Box Office and through the Department of Music at the University.

ROBERT DODSON, Visiting Professor of Violoncello at The University of Lethbridge, will conduct coaching sessions for violoncellists and all others who wish to attend on Monday, February 24 at 2 p.m. in Convocation Hall. On February 25, at 8:30 p.m., Mr. Dodson will present a violoncello recital, assisted by Louise Chapman, pianist. The program will include works by Haydn, Schubert, Brahms, Granados and Popper. Admission is free.

ENGINEERING BUILDING OPENING

The New Engineering Building, to be known as The University of Alberta Engineering Centre I, will be officially opened on Friday, February 21, at 3:30 p.m.

Chairman of the opening ceremonies will be MAX WYMAN, Vice-President, Academic. L. A. DESROCHERS, of the Board of Governors Building Committee, will open the building following a speech of welcome from WALTER H. JOHNS, President of the University,

and a history of the Faculty of Engineering by ROBERT M. HARDY, Dean of Engineering.

ROBERT CLARK, provincial Minister of Education and of Youth, will also participate in the ceremonies. Music will be provided by ARTHUR CRIGHTON, Associate Professor of Music, at the organ.

INDUSTRIAL RELATIONS SEMINARS

A series of industrial relations seminars, sponsored by the Department of Extension, has been scheduled for the eight consecutive Monday evenings between March 3 and April 21, with a one-day closing conference on Wednesday, April 23.

H. W. G. WRIGHT, Superintendent of Industrial Relations, The Steel Company of Canada, will conduct the lecture portion of the seminars, dealing with management's rights, hours of work, shift scheduling, seniority, discipline, and discharge. Particular emphasis will be placed on grievance and arbitration procedures. During the closing conference, guest speakers will discuss additional areas of collective agreements.

Fees for the lectures and the closing conference are \$45 all inclusive and \$15 all inclusive for the closing conference only.

Applications are available from the Department of Extension, Corbett Hall, local 2021.

GROUP LEADERSHIP COURSE

Small Group Leadership is the topic of a five-day training course scheduled for March 16 to 21 at the Banff School for Continuing Education. The course, sponsored by the Department of Extension and the Division of Continuing Education of The University of Calgary, is intended for rural and urban leaders in voluntary, private, and public organizations who in the performance of their duties must work with small groups.

Directing the work of the participants will be W. H. STEWART, Associate Professor of Extension, and J. M. McDONALD, Assistant Professor of Extension, both of The University of Alberta; STAN CHAPMAN, Associate Director of the Division of Continuing Education, RANDALL MEEKS of the Division of Continuing Education of The University of Calgary, and PETER HLUSHKO, Supervisor of Rural Leadership, Alberta Department of Agriculture.

Registration is now underway at the Department of Extension, Corbett Hall. The registration fee is \$40; participants will be responsible for their own accommodation at the Banff School at \$9 per day.

The new Basic Medical Sciences Building

The second building in the Health Sciences Centre will be the new Basic Medical Sciences Building, Phase 1, a six-story structure to be located behind the Alberta Research Council. The first building in the Centre was the Clinical Sciences Building, south of the University of Alberta Hospital.

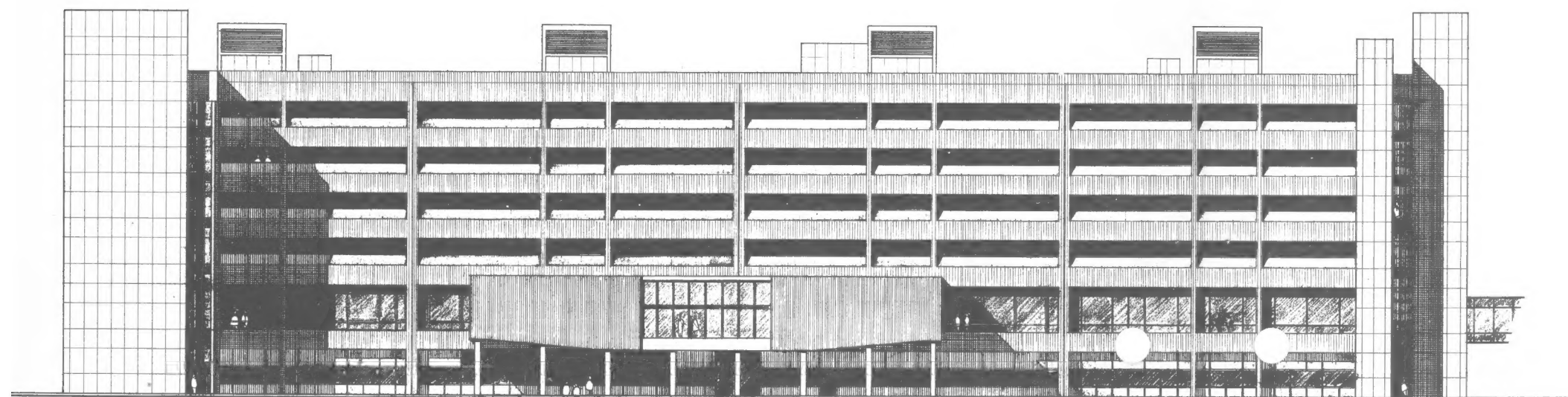
The Basic Medical Sciences Building is expected to cost \$7,400,000; it will house the Departments of Anatomy, Bacteriology, and Biochemistry and the Cancer Research Unit (McEachern Laboratory). It incorporates some features introduced in the Clinical Sciences Building and planned for the entire Health Sciences Centre, including vertical "nodes" or service cores containing stairways, elevators and mechanical shafts. These nodes extend beyond the perimeter of the building and allow much more economical use of interior space than is possible in traditional building designs.

The detailed plans for the new building have been approved by the Board of Governors Building Committee and must receive the approval of the Universities Commission and the Capital Development Committee of the provincial government.



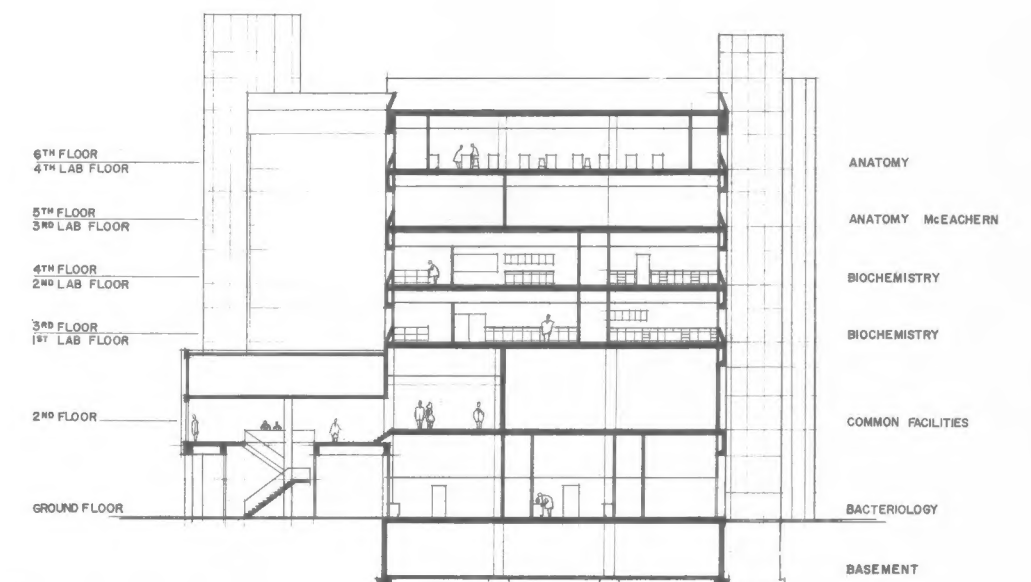
The new Basic Medical Sciences Building, from the north west; the Research Council of Alberta is in the left foreground (for a site plan, see overleaf).

South elevation

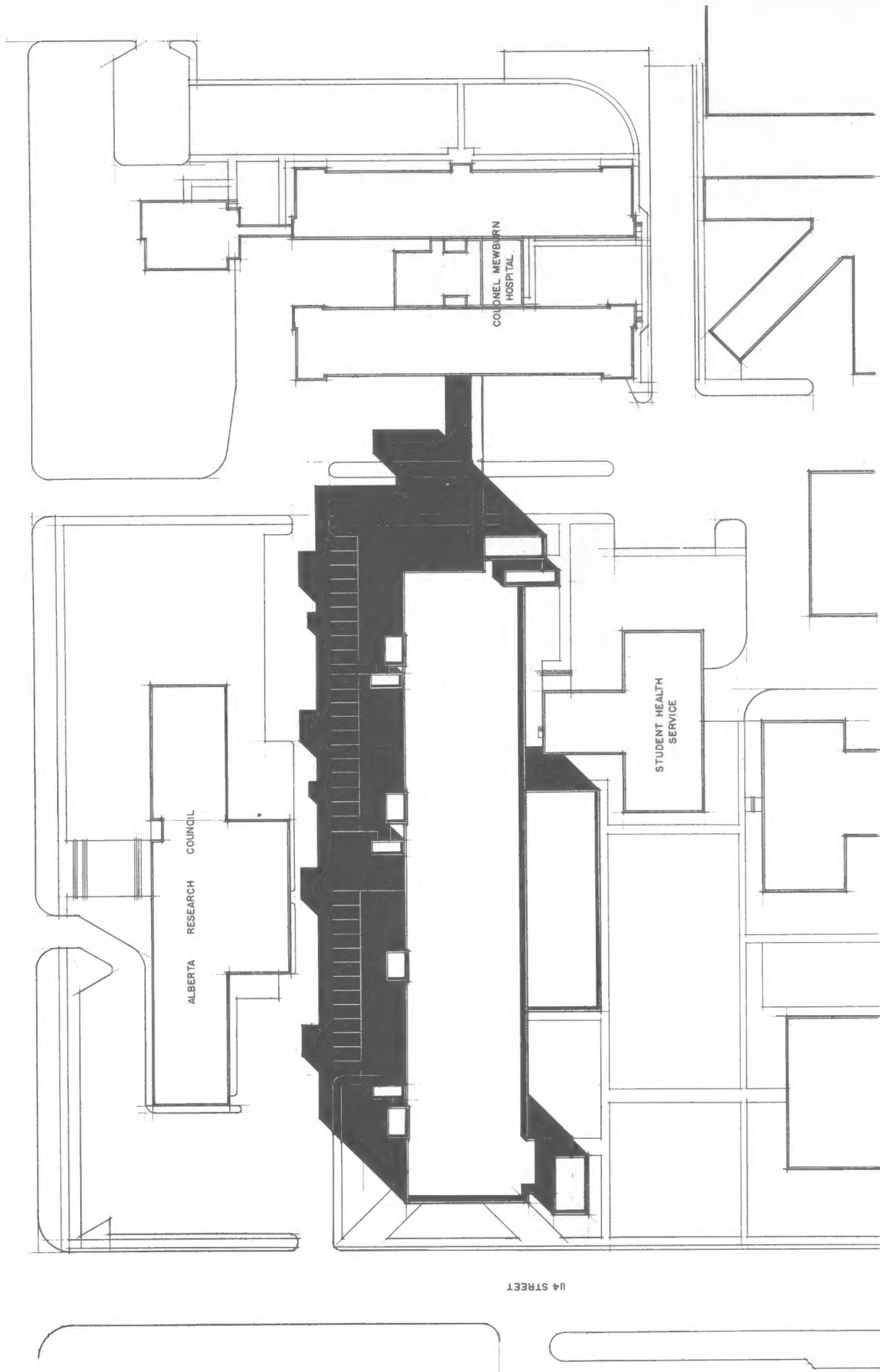


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Below—a cross section through the centre of the building, seen from the east.



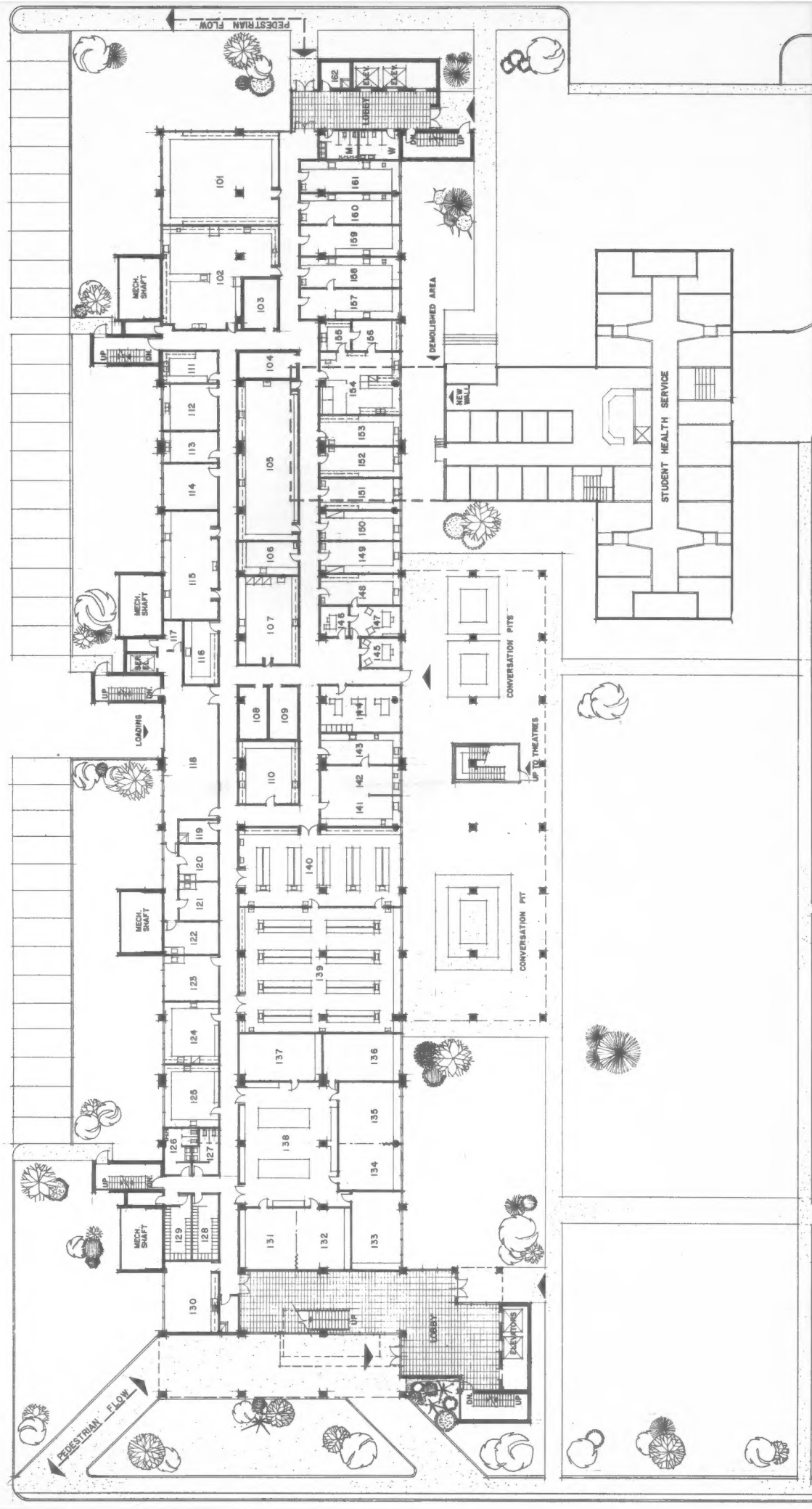
87 AVENUE



Site plan shows where the new building will be located, south of the Alberta Research Council, and west of the Colonel Mewburn Pavilion. A covered corridor will connect the new building to the Colonel Mewburn. Most of the site is at present parking area.

Legend

- | Legend | |
|------------|---------------------------------|
| 101 | Instrument room |
| 102 | Graduate laboratory |
| 103 | Hot laboratory |
| 104 | Cold laboratory |
| 105 | Laboratory support |
| 106 | Technical assistant |
| 107 | Virus unit |
| 108 | Hot laboratory |
| 109 | Cold laboratory |
| 110 | Laboratory support |
| 111 | Photography unit |
| 112 | Chromatography |
| 113 | Fluorescent microscope |
| 114 | Storage |
| 115 | Laboratory support |
| 116 | Workshop |
| 117 | Office |
| 118 | Receiving |
| 119 | Service |
| 120 to 122 | Animal rooms |
| 123 | Technical staff lounge |
| 124 to 125 | Class laboratory |
| 126 | Men's washroom |
| 127 | Women's washroom |
| 128 | Women's lockers |
| 129 | Men's lockers |
| 130 to 137 | Group teaching |
| 138 | Teaching display |
| 139 | Class laboratory |
| 140 | Graduate laboratory |
| 141 to 143 | Mycoology laboratory |
| 144 | General office |
| 145 | Administrative assistant |
| 146 | Secretary |
| 147 | Head's office |
| 148 | Head's laboratory |
| 149 to 150 | Tissue culture |
| 151 to 153 | Reserve office laboratory |
| 154 | Electron microscope preparation |
| 155 | Dark room |
| 156 | Electron microscope |
| 157 to 161 | Office laboratory |
| 162 | Service |



BOY SCOUTS EXPRESS THANKS

J. R. FLEMING, President of the Edmonton Regional Council of the Boy Scouts of Canada, sent the following message to WALTER H. JOHNS, President of The University of Alberta:

"The Annual Meeting of the Boy Scouts of Canada, Edmonton Regional Council, was held on January 31, 1969, at which time a sincere vote of thanks was extended to The University of Alberta, and its many Faculty and Student members who contributed so generously to the work of the Boy Scout Program in the City of Edmonton.

"We would appreciate very much if you could extend to your Associates our appreciation for their continued support and efforts towards the Boy Scouts of Canada."

NOTICES

STAFF-STUDENT SEMINAR

Classes will be cancelled on Wednesday, March 5, when a staff-student seminar on "Problems of the University" will be held. Further details will appear in next week's edition of FOLIO.

COMMISSION HEARINGS

The Commission on the Relations between Universities and Governments will hold public hearings at the University on February 26 in Room 231 of the Engineering Building.

MTST TYPING SERVICE

The Division of Educational Research Services reports that the Magnetic Tape Selectric Typewriter (MTST) typing service has been booked until the end of March. The work includes commitments to specific staff members, journal publications, and documentation of the Division. In order to reduce publishing costs, a magnetic tape

selectric typewriter which will permit composing codes to be placed on tape will arrive sometime in April. Because of the training program required to program composing codes and because of the "bugs" normally present in new equipment, formal commitments for April and May cannot be made. The Division will announce when formal commitments can be made.

FOOD SERVICES HOURS

The Department of Housing and Food Services has announced the hours of operation of food services on the campus during the spring recess.

The Lister Hall Cafeteria will be open for breakfast from 8 a.m. to 10 a.m. on Friday, March 7 and from 9 a.m. to 10 a.m. on Saturday and Sunday, March 8 and 9; lunch will be served from 11:30 a.m. to 1 p.m. and dinner from 5 p.m. to 6 p.m. on all three days. A la carte service will be available.

The snack bar will be closed from 11 p.m. Thursday, March 6 until 7:30 p.m. on Sunday, March 9.

The snack bar in the Students' Union Building will be open from 9 a.m. until 7 p.m. on all three days. The SUB cafeteria will be closed during the recess. If Collegiate finals in basketball and/or hockey are played on the Friday or Saturday, the Snack Bar will open until 11 p.m. on these nights.

The Varsity Tuck Shop will be open from 7:15 a.m. until 9:30 p.m. on Friday, March 7, and closed on March 8 and 9.

FRENCH SUMMER INSTITUTE

A six-week Summer Institute in French Conversation for individuals will be held at Loyola College in Montreal from June 30

to August 8. A seven-day Group Institute for groups of 20 or more will be offered from May 12 to August 15, at the convenience of visiting groups. Enquiries should be addressed to the Summer Institute, Loyola of Montreal, 7141 Sherbrooke Street West, Montreal 262, Quebec. A brochure is posted in the Faculty Lounge on the tenth floor of the Education Building.

FOLIO CHANGES ITS RAIMENT

Everybody was surprised, including the Editor and Advisory Committee, to see FOLIO arrive in envelopes for the past two or three issues. This week FOLIO returns to its humble old habit of arriving through the campus mail without an envelope. It also returns to its older habit of adorning itself in white book paper, rather than newsprint. A leprechaun apparently decided the newsprint was too flimsy for handling in the campus mail; we've decided that white paper is a lot cheaper than envelopes.

PERSONAL NOTICES

Staff members may forward notices to reach the Editor by 9 a.m. the Friday prior to publication. They must be typed, and not exceed 35 words including heading. Advertisements received will be published at the Editor's discretion.

WANTED TO RENT—Two or three-bedroom house near University. September 1, 1969 to May 1, 1970. 439-2973.

FOR RENT—House in Grandview. Four bedrooms, study, family room, games room, 2½ baths, utility room with washer and dryer, two-car garage. Furnished, including piano, pool table, television, dishwasher. Available September 1, 1969 to July 1, 1970. Arleigh Laycock, local 3287 to 434-1519.

FOR RENT—Fully furnished house in Windsor Park. 10 minutes walk from the campus. Three bedrooms. Study. Rumpus room. Two-car garage. Available May 1, 1969 to August 31, 1970. 439-3040.

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The University of Alberta
Edmonton 7, Alberta

Advisory Committee: Henry Kreisel
(Associate Dean of Graduate Studies);
D. D. Betts (Professor of Physics);
Aylmer A. Ryan (Provost and Executive
Assistant to the President).

F. William Samis, Editor

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